What Is Claimed Is:

1 1.	A computer system	comprising:
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- a processor having an input, and responsive to a signal at said input,
- 3 reducing a power consumption of said processor; and
- a power reduction circuit coupled to said input of said processor and
- 5 providing a signal to said input of said processor in response to a failure
- 6 condition affecting said processor such that the power consumption of said
- 7 processor is periodically reduced.
- 1 2. A computer system according to claim 1, wherein a first signal
- 2 level of the signal at the input of the processor stops an internal clock of the
- 3 processor.
- 1 3. A computer system according to claim 1, wherein said signal
- 2 provided to said input of said processor in response to said failure condition
- 3 comprises a periodic signal including at least a first signal level and a
- 4 second signal level.
- 1 4. A computer system according to claim 1, further comprising a
- 2 cooling fan directing air toward said processor, wherein said failure condition

4	cooling fan.	
1	5. A computer system according to claim 4, said power reduction	
2	circuit including a signal generator generating said periodic signal.	
1	6. A computer system according to claim 5, wherein said signal	
2	generator includes inputs corresponding to characteristics of said generated	
3	periodic signal.	
1	7. A computer system according to claim 5, wherein said signal	
2	generator includes an input corresponding to a duty cycle of said generated	
.3	periodic signal and an input corresponding to a frequency or a period of said	
4	generated periodic signal.	
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1	8. A computer system according to claim 1, wherein said power	
2	reduction circuit detects a temperature of said processor, wherein said	
3	failure condition affecting said processor is detected when said detected	
4	temperature of said processor is above a predetermined temperature.	
1	9. A computer system according to claim 1, wherein said power	
2	reduction circuit includes a sensor detecting a temperature of said	

3 affecting said processor corresponds to a reduced performance of said

- 3 processor, wherein said failure condition affecting said processor is det cted
- 4 when said sensed temperature of said processor is above a predetermined
- 5 temperature.
- 1 10. A computer system according to claim 9, wherein said sensor
- 2 comprises a temperature sensor embedded in a heat sink attached to said
- 3 processor
- 1 11. A computer system according to claim 3, said power reduction
- 2 circuit including a switch providing said periodic signal to said input in
- 3 response to a presence of said failure condition affecting said processor,
- 4 said switch providing said second signal level to said input in response to an
- 5 absence of said failure condition affecting said processor.
- 1 12. A computer system according to claim 3, said power reduction
- 2 circuit including a multiplexor providing said periodic signal to said input in
- 3 response to a presence of said failure condition affecting said processor,
- 4 said multiplexor providing said second signal level to said input in response
- 5 to an absence of said failure condition affecting said processor.
- 1 13. A computer system according to claim 1, wherein said failure
- 2 condition affecting said processor is a thermal temperature condition

- 3 corresponding to an overtemperature condition of said processor at or near
- 4 said processor.

1 14. A computer system according to claim 1, said computer2 system further comprising:

at least one additional processor each having an input, wherein a power consumption of each processor is reduced in response to a first signal level of the input of that processor and is not reduced in response to a second signal level of the input of that processor; and

at least one additional power reduction circuit, each said additional power reduction circuit respectively corresponding to each said at least one additional processor and providing a signal to said input of said corresponding processor in response to a failure condition affecting the corresponding processor, wherein said signal provided to said input of said corresponding processor comprises a periodic signal including at least the first signal level and the second signal level.

- 1 15. An apparatus for reducing a power consumption of a
- 2 processor, comprising:
- a signal generator generating a failure condition signal
- 4 indicating a failure condition affecting said processor; and
- 5 a power reduction circuit responsive to said failure condition
- 6 signal and providing a periodic signal for periodically reducing a power
- 7 consumption of said processor.
- 1 16. An apparatus according to claim 15, wherein said apparatus
- 2 includes said processor, and said processor has a power consumption
- 3 reduction input, wherein said power reduction circuit provides said periodic
- 4 signal to said power consumption reduction input of said processor in
- 5 response to said failure condition signal.
- 1 An apparatus according to claim 16, wherein an internal clock
- 2 of the processor is stopped in response to the power consumption reduction
- 3 input of the processor.
- 1 18. An apparatus according to claim 15, further comprising a
- 2 cooling fan directing air toward said processor, wherein said failure condition
- 3 affecting said processor corresponds to a reduced performance of said
- 4 cooling fan.

- 1 19. An apparatus system according to claim 15, said power
- 2 reduction circuit including a signal generator generating said periodic signal.
- 1 20. An apparatus according to claim 15, wherein said power
- 2 reduction circuit includes a sensor detecting a temperature of said .
- 3 processor, wherein said failure condition affecting said processor is detected
- 4 when said sensed temperature of said processor is above a predetermined
- 5 temperature.
- 1 21. An apparatus according to claim 20, wherein said sensor
- 2 comprises a temperature sensor embedded in a heat sink attached to said
- 3 processor.
- 1 22. An apparatus according to claim 16, said power reduction
- 2 circuit including a switch providing said periodic signal to said power
- 3 condumption reduction input in response to a presence of said failure
- 4 condition affecting said processor.

- 1 23. An apparatus according to claim 16, said power reduction
- 2 circuit including a multiplexor providing said periodic signal to said power
- 3 consumption reduction input in response to a presence of said failure
- 4 condition affecting said processor.
- 1 24. An apparatus according to claim 15, wherein said failure
- 2 condition affecting said processor is a a thermal failure condition
- 3 corresponding to an overtemperature condition of said processor at or near
- 4 said processor.
- 1 25. A method of reducing a power consumption of a processor.
- 2 comprising steps of:
- detecting a failure condition affecting said processor; and
- 4 periodically reducing a power consumption of said processor in
- 5 response to said step of detecting said failure condition.
- 1 26. A method according to claim 25, wherein said step of
- 2 periodically reducing the power consumption of said processor comprises
- 3 periodically stopping an internal clock of said processor.
- 1 27. A method according to claim 25, further comprising a step of
- 2 measuring a temperature at or near said processor and providing said signal

- 3 indicating a failure condition affecting said processor in respons to said
- 4 measured temperature.
- 1 28. A method according to claim 25, further comprising a step of
- 2 providing said signal indicating a failure condition affecting said processor in
- 3 response to a reduction in performance of a cooling fan.
- 1 29. A method according to claim 25, wherein said failure condition
- 2 affecting said processor corresponds to an overtemperature condition of
- 3 said processor at or near said processor.
- 1 30. A method according to claim 25, wherein said failure condition
- 2 affecting said processor is a thermal failure condition affecting a temperature
- 3 of said processor.